

Fig. 2

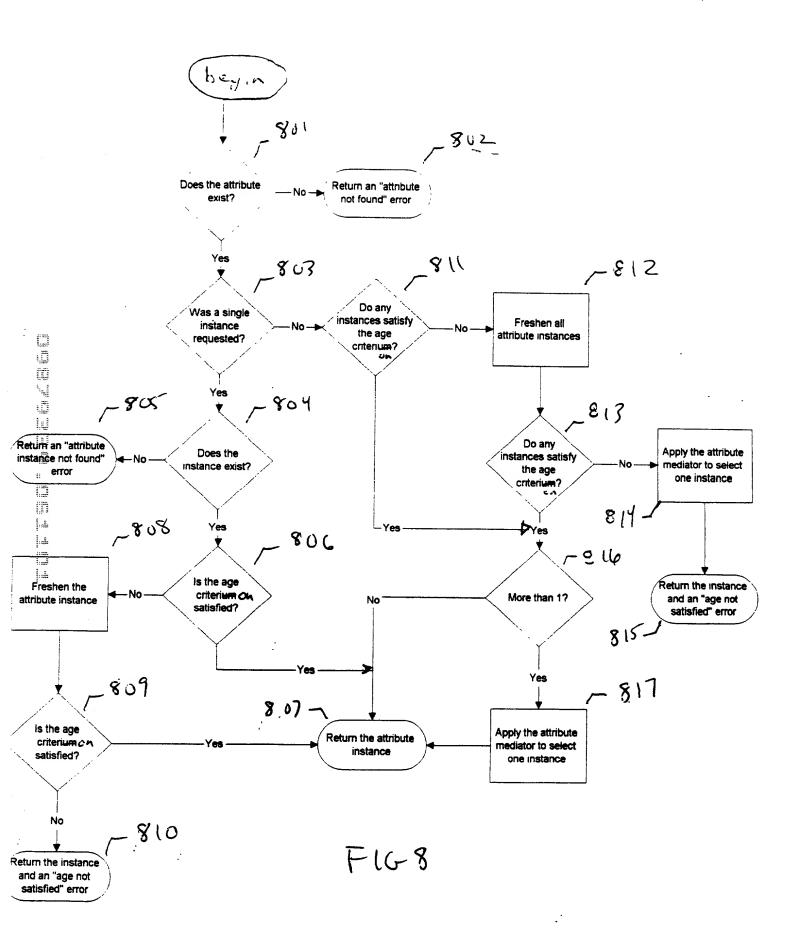
	7	degrees/minutes	13:11:04.023	.60.0	47° 38.73° N.	gps	user location	
	consuming							
	context clients					name		
	number of	units	timestamp	uncertainty	value	context server	attribute name	
\	attribute instance table	attr						
7 500								
							·	
لم	514.7	5/h 1	516	FIG 4	7/15			
	nce)	(reference)	l r a.exe	2/10/2000		alysis 1	ution region ar	403
	nce)	(reference)	ips.exe	2/21/2000			/ ips	402 / ips
	nce)	(reference)	gps.exe	2/10/2000			Sps	401
	request handler		filename	installation date	version		context server name	
ooh	context server table							
coh								

	attribute name	context server	value	uncertainty	timestamp	units	number of
		name					context clients
							consuming
7	user.location,	sd8	47° 38.73' N,	.60' 0	13:11:04.023	degrees/minutes	2
20 7			122° 18.43' W		2/22/2000		
	user.location	ips	47° 38.745' N,	0°.021'	13:11:01.118	degrees/minutes	2
7785	-		122° 18.424' W		2/22/2000	ļ	
	user.elevation	ips	22	5.	13:11:01.118	meters	•
Sex		•			2/22/2000		
* (user.in_region	location_region_	none	none	none	none	0
) jes		analysis					
•	16 J	7	215	7/5/1	1515	15/16	1217
)					

context client name	message handler
location map	(reference)
distance from home	(reference)
region analysis	(reference)

{		r L	الد	してし	-	1	ر ا
						analysis)
		none	none	none	none	location_region_	user in region
			2/22/2000				
	_	meters	13:11:01.118	.	22	ips	user elevation
			2/22/2000		122° 18.424' W		
	2	degrees/minutes	13:11:01.118	0°.021'	47° 38.745' N,	ips	user location
			2/22/2000		122° 18.43' W		
	2	degrees/minutes	13:11:04.023	,60°,0	47° 38.73' N,	Sd8	user.location
consuming					_		
context clients	<u>ვ</u>					name	
number of		units	timestamp	uncertainty	value	context server	attribute name

~



						attri	attribute instance table	-
	attribute name	context server name	value	uncertainty	timestamp	units	number of context clients consuming	
701	user.location	sda	47° 38.73' N,	0°.09′	13:11:04.023 2/22/2000	degrees/minutes	2	
/ C08	user location	sdi	47° 38.745' N,	0°.021'	13:11:01.118	degrees/minutes	2	
9.2	ușer elevation	sdi	22.25	5.	13:11:06.565 2/22/2000	meters		
3	user in region	region analysis	none	none	none	none		
7 204	1)67	7167	(۱۹	5 FIG 9	2167	ا ا	6 (917	

							1000
						condition table	
	condition name	context client name	first logical	second logical	comparison value	logical operator	
		•	parameter	parameter			
100	No.	region analysis	user in region	none	TRUE	=	
3	1 0 1	21017 1012	9	13 L 1014	4 (1615)	٠ ١٥٠٢	
	_						

,

0011					•	
condition monitor table	stopped		Ou		シミノ	
conditic	condition last trigger handler	reference				
	condition last	evaluated	101 00 11 21	13.11.29.101 2/22/2000		
	Freduency	fallopholi		30	-	
	1 - 1 -	Denavioi		TRUE or	FALSE	13 FIGTI
		ຮ	name	region bounda region analysi in region true TRUE or		L1112 L1113
		context client	name	region analysi	S	11 11
		condition	monitor name	region bounda	ry crossed	
				-	<u>う</u>	

ible / 12 co			8-~-/
e l	stopped	yes	١ (١٢١٦)
conditi	condition last trigger handler evaluated reference	(reference)	
	condition last evaluated	13:11:59.101	71217 -5141-
	frequency	30	FIG 12
	behavior	TRUE or	ralse 1213 FI
	condition	monitor name name name region_analysi in_region_true TRUE or	21217
	context client	name region_analysi	5 1
	condition	monitor name region bounda	1201 Ty crossed s
			107

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attribute request table

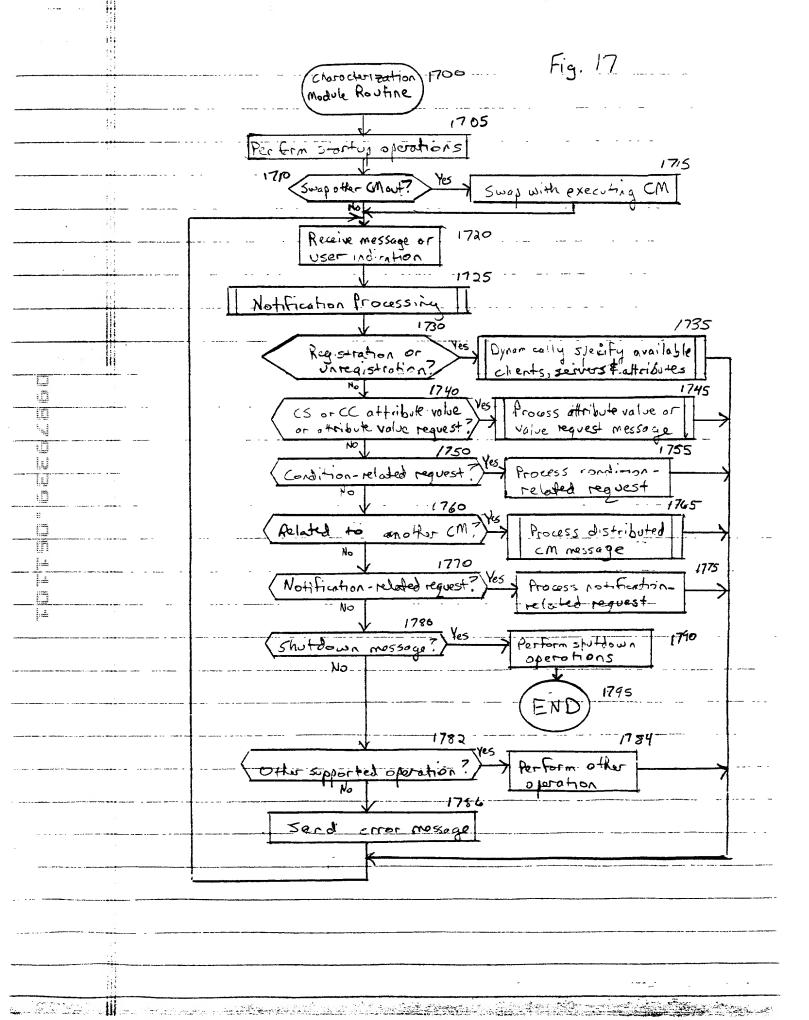
attribute name	context client name
~ user.location	distance_from_home
user.in region	location_map
user.location [gps]	location_region_analysis
user.in_region user.location [gps] user.elevation	location_map
4111	Figure 14 7 1412

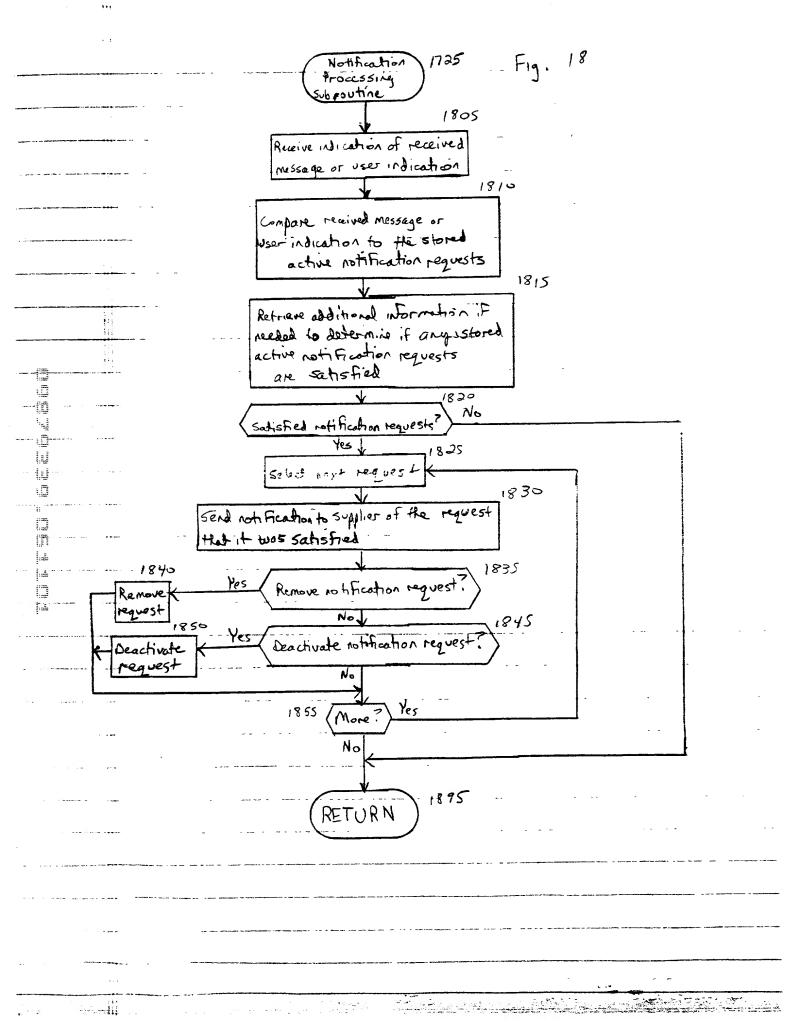
User.	Platform. (continued)
Desired privacy level	CPU.
Interruptibility	Load Fig. 15
Speed	Special Specia
Direction	Memory.
Acceleration	Total_capacity
Availability.	Used
Cognitive_availability	Storage.
Tactile availability	Total_capacity
Manual availability	Used
Visual availability	Connectivity.
Oral availability	Connection_status
Auditory availability	Connection_speed
Proximity. <item name="" or="" place=""></item>	Connection_type/device
Mood.	Connection_activity
Happiness	Power.
Sadness	Power_source
Anger	Power_level
Frustration	Environment.
Confusion	People.
Activity.	Nearest
Driving	Number_present
Eating	Number_close
Running	Local.
	Time
Sleeping Talking	Date
-	Temperature
Typing Walking	Pressure
•	Wind speed
Location.	Wind_direction
Place_name	Absolute humidity
Latitude	High forecast_temperature
Longitude	Low forecast_temperature
Altitude	People_present
Room	Ambient_noise_level
Floor	Ambient light level
Building Address	Days. <pre>previous or future>.</pre>
	High_temperature
Street	Low_temperature
City	Precipitation_type
County State	Precipitation_amount
Country	Place. <place name="">. (same as Environment.Local)</place>
Postal Code	Application.
Destination. (same as User.Location.)	Mail.
	Available
Physiology. Pulse	New_messages_waiting
	Messages_waiting_to_be_sent
Blood pressure	Phone.
Blood_pressure	Available
Respiration Person. <name id="" or="">. (same as User.)</name>	In_use
	On/off
Platform.	Notification_mechanism
UI. Oral_input_device_availability	Call_incoming
Manual_input_device_availability	Caller_ID
Tactile_output_device_availability	Sound_recorder.
Visual_output_device_availability	Available
Auditory_output_device_availability	Recording

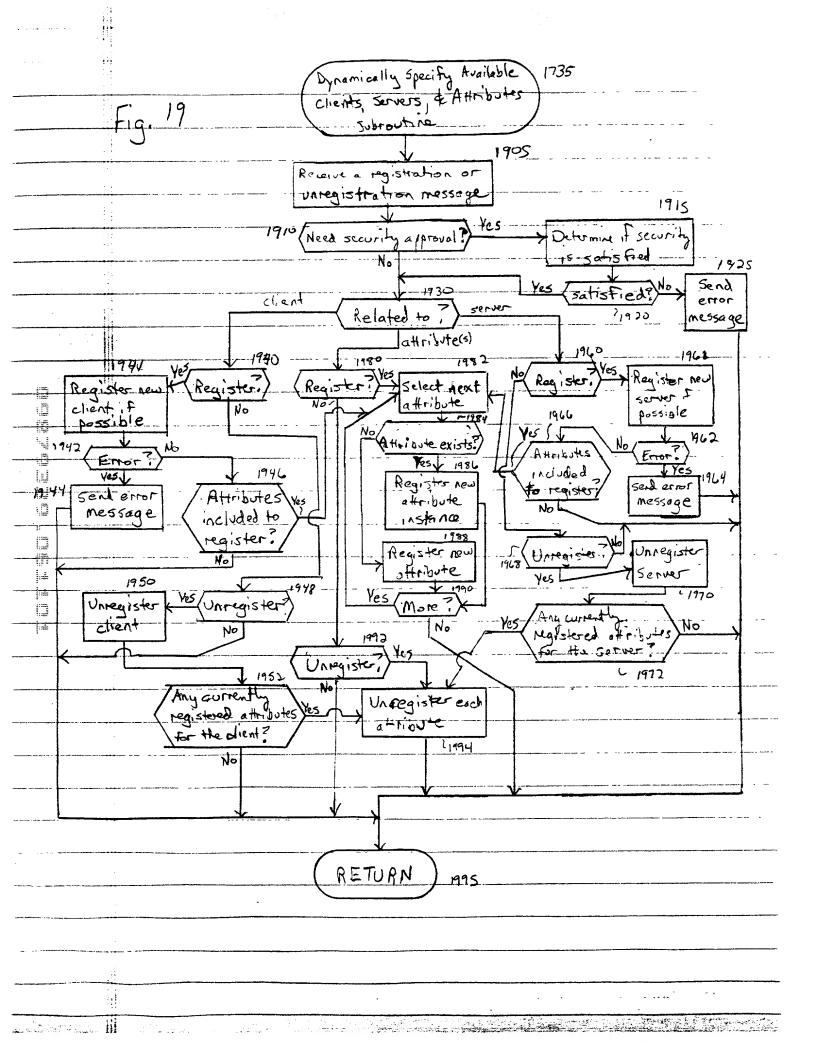
- 1) User Setting
 - a) Mental Context
 - i) Meaning
 - ii) Cognition
 - (1) Divided User Attention
 - (2) Task Switching
 - (3) Background Awareness
 - iii) Solitude
 - iv) Privacy
 - (1) Desired Privacy
 - (2) Perceived Privacy
 - v) Social Context
 - vi) Affect
 - b) Physical Situation
 - i) Body
 - (1) Biometrics
 - (2) Posture
 - (3) Motion
 - (4) Physical Encumberment
 - (a) Senses
 - (i) Eyes
 - (ii) Ears
 - (iii) Tactile
 - (iv) Hands
 - (v) Nose
 - (vi) Tongue
 - (b) Workload demands/effects
 - (c) Interaction with computer devices
 - (d) Interaction with people
 - (e) Physical Health
 - ii) Environment
 - (1) Time/Space
 - (2) Objects
 - (3) Persons
 - (a) Audience/Privacy Availability
 - (i) Scope of Disclosure
 - (ii) Hardware affinity for privacy
 - (iii) Privacy Indicator for User
 - (iv) Privacy Indicator for Public
 - (v) Watching Indicator
 - (vi) Being Observed Indicator
 - (4) Ambient Interference
 - (a) Visual
 - (b) Audio
 - (c) Tactile

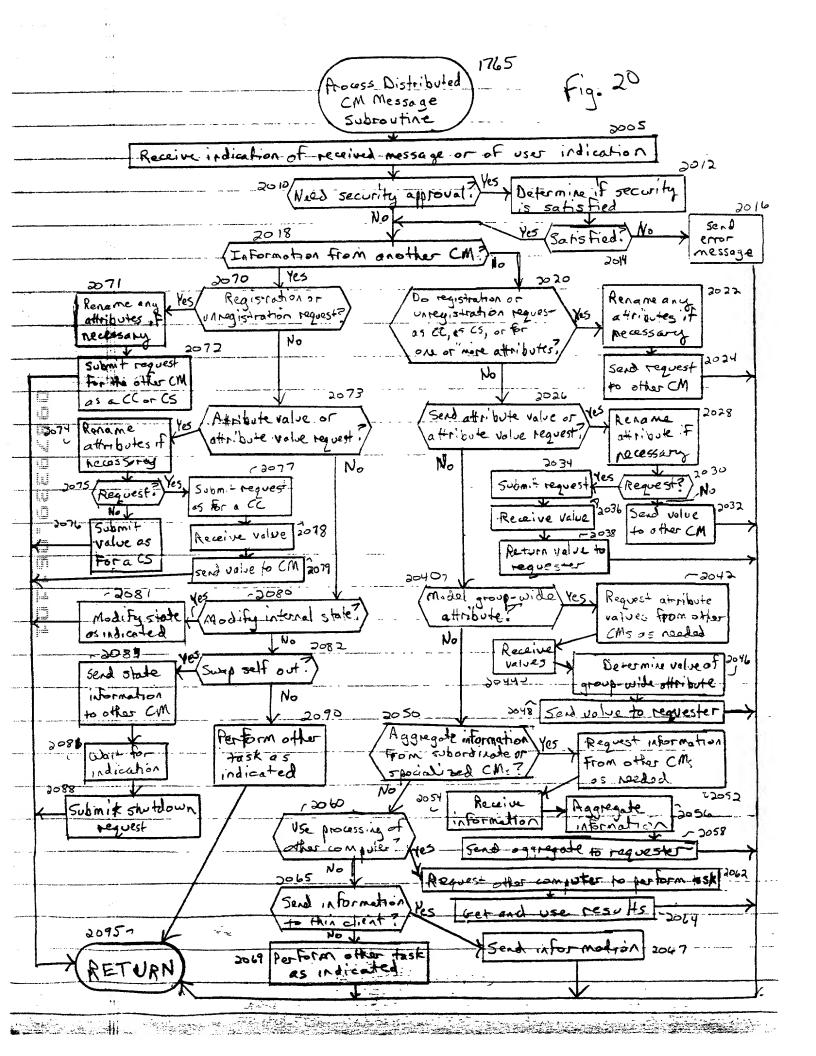
- 2) Computer
 - a) Power
 - b) Configuration
 - i) User Input Systems
 - (1) Hand/Haptic
 - (a) Keyboard/Keystrokes
 - (2) Voice/Audio
 - (3) Eye Tracking
 - (4) Cursors
 - (a) Axis
 - (b) Resolution
 - (i) Selection
 - (ii) Invocation
 - (c) Accelerators
 - ii) Output Systems
 - (1) Visual
 - (a) Resolution
 - (2) Audio
 - (a) Public/Private
 - (3) Haptic
 - iii) External Resources
 - (1) I/O devices
 - (2) Connectivity
 - c) Data
 - i) Quantity/State
 - ii) Urgency/Importance
 - (1) Use of Prominence
 - iii) Modality
 - iv) Sensitivity/Purpose
 - (1) Privacy Issues
 - (2) Use of Association
 - (3) Use of Safety
 - v) Source/Ownership
 - (1) Types
 - (a) User generated
 - (b) Other computers or people
 - (c) Sensor
 - (d) PC State
 - (2) Use of Association

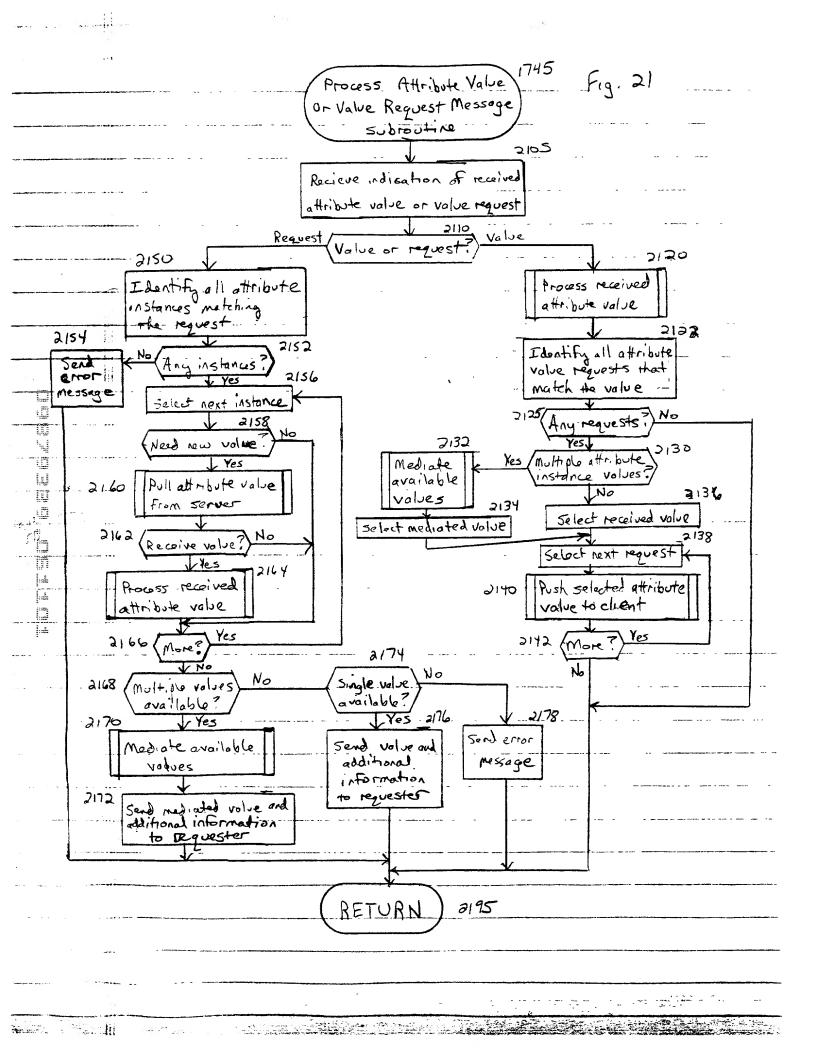
Fig. 16

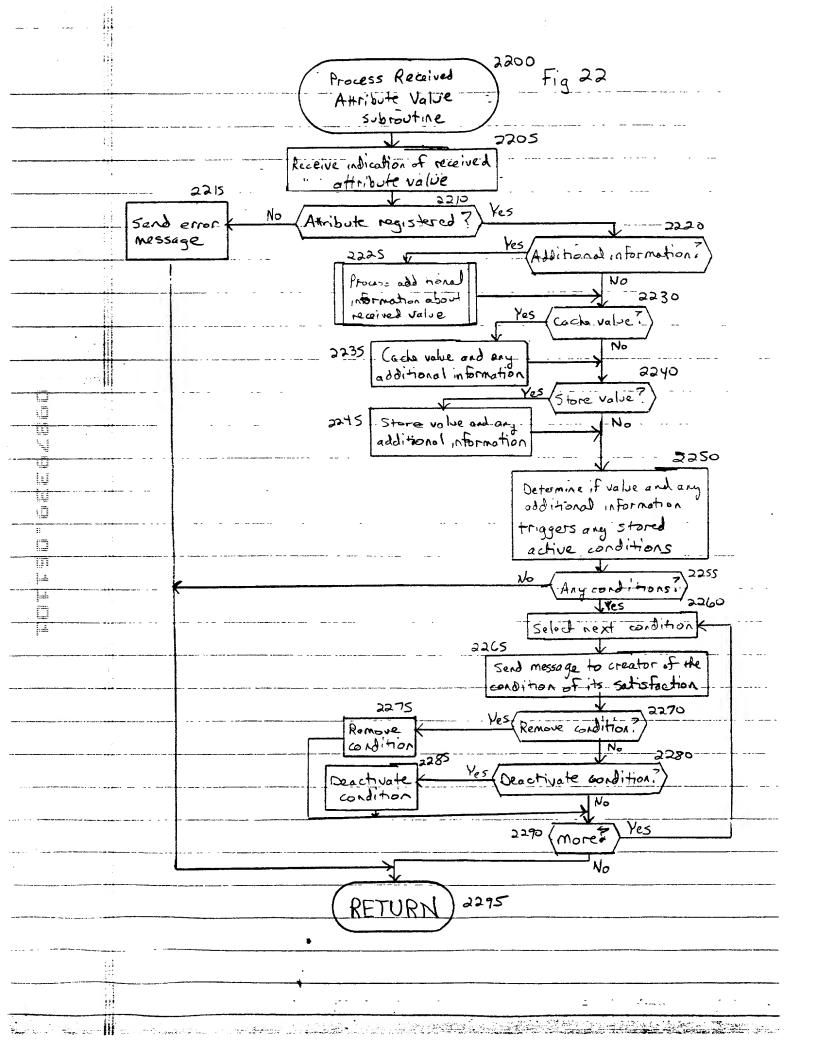


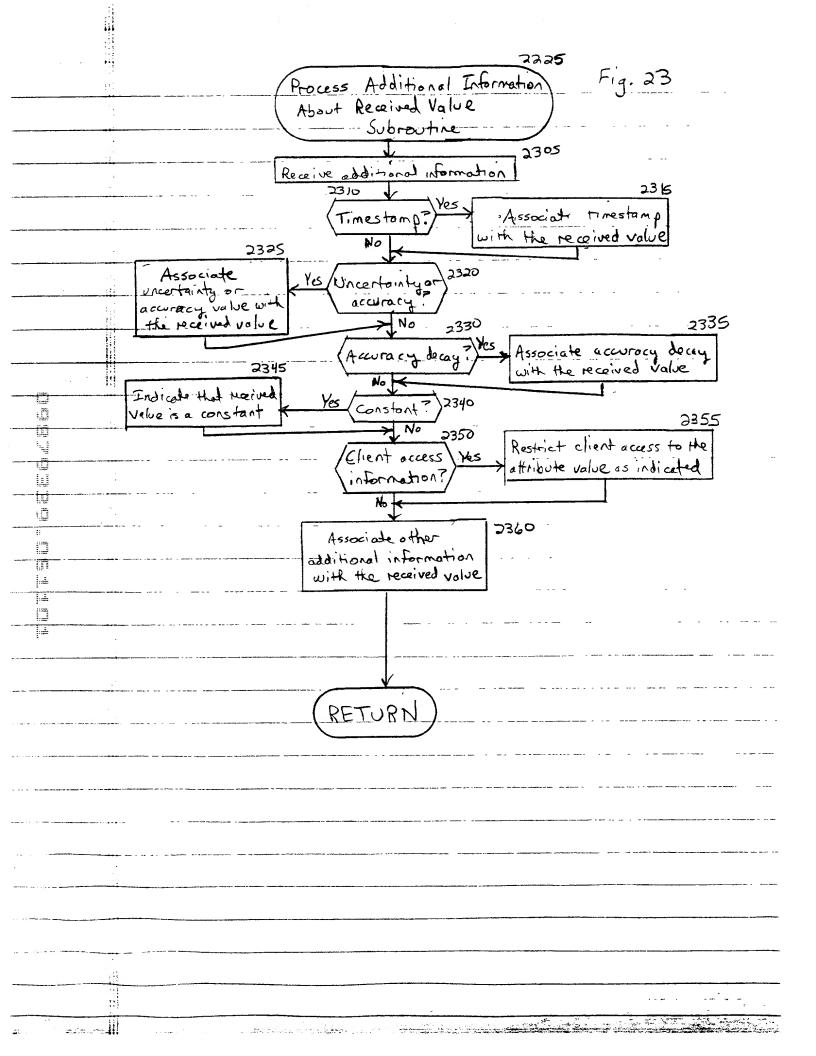


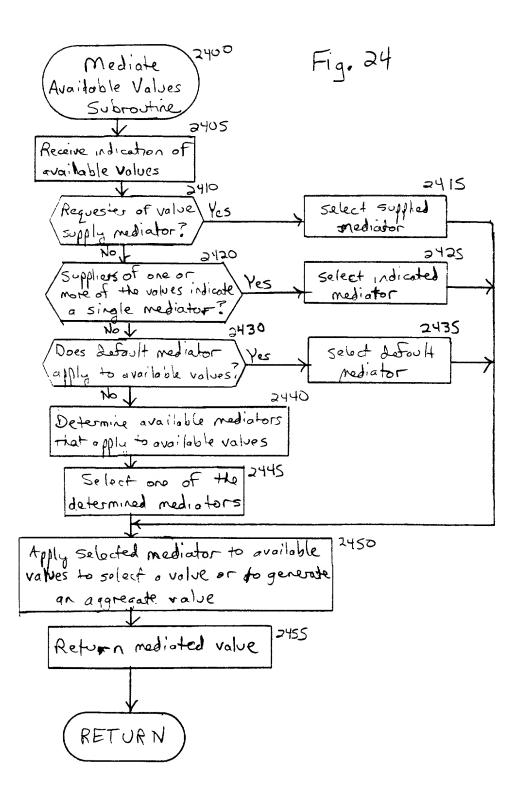












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